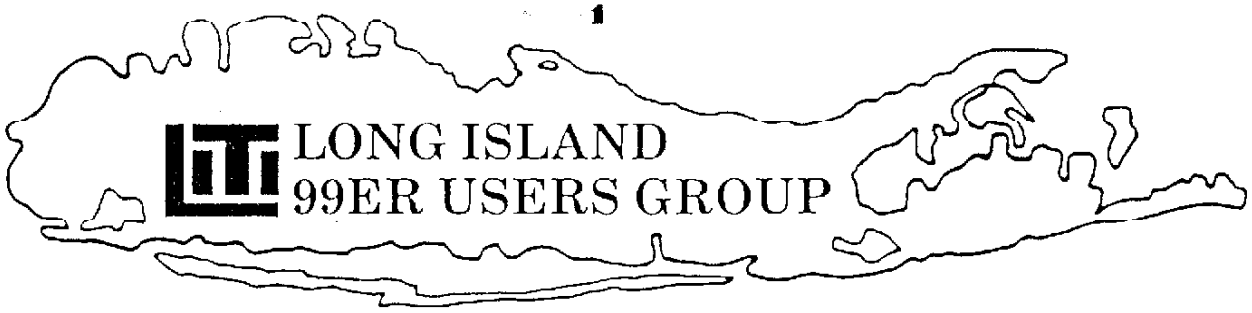

VOL #10 NO.5 MAY, 1991 $2.00

MEETING DATE: FRIDAY-MAY 10, 1991

LONG ISLAND SOUND

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ESTABLISHED APRIL-1983

****
* SECRETARY *
* AND *
* EDITOR'S NOTEBOOK *
* BY *
* FRANK J. BUBENIK JR *
****

MEETING PLACE: TONY'S HOME.
542 SOUTH BROADWAY-LINDENHURST, NY

MINUTES OF THE APRIL MEETING.

Call to order: 9:00 PM. 10 members and 2 guests were present at this time.

ELECTIONS 1991:
Since there was not enough members present at the March meeting, the election was held at this meeting. the present officers were reelected for 1991. There names and positions are listed on the last page of the news letter.

SECRETARY'S REPORT: Discussed my trip to FEST-WEST and BOSTON shows.
LIBRARIAN'S REPORT(FRANK BARON) is available after the meeting to help you with your library selections.

TREASURER'S REPORT: DUES RE-NEWAL: H.GUENTHER,B.LAWSON,M.McDOWELL,& V.MEHLING.

Bob Lawson showed a OPA 80 COLUMN installation in a console. OPA has put out a newsleter/catalog. For a copy write to: OPA-432 Jarvis Street #501-502-Toronto, Ont. Canada M4Y-2H3.
Adjourned: 10:00 PM.

SOFTWARE LIBRARY.

Remember software copy fees have been reduced to $3.00 each or 4 disks for $10.00. The library will be maintained at TONY'S from now on. Tape programs are available also.

DISKS FOR SALE.

The new disks for sale are POLARIOD BRAND. 25 disks sell for $7.00 and 10 disks sell for $3.00. That's a GREAT DEAL plus raising funds for our group.

FAMILY COMPUTER SHOW(TICOFF 91)

This years show was a success. 725 paid attendance. $3500+ was given to the SCHOLARSHIP FUND. TI was represented by ASGUARD SOFTWARE,COLONIAL SOFTWARE,GENIAL TRAVELER,RAVE 99,VMC SOFTWARE AND MICROPENDIUM. So the TI 99/4A had the largest number of vendors.

USING "PRINT USING" WITH YOUR PRINTER

By Richard Roberts

A TEXNET Download

One of the more obscure statements available with TI Extended BASIC is one called PRINT USING. Even more obscure is the fact that this statement can be used to format variables and constants that will be dumped to your printer. The Extended BASIC manual, on page 150, shows several examples of how PRINT USING can be used to format data for screen display, but nary a word of how to do the same with open files. It can be done, and is much more powerful than you may realize.

Any discussion of PRINT USING will require an understanding of the IMAGE statement, so if you are not familiar with it, you better brush up on it first. The PRINT USING statement uses IMAGE in one of two ways, either with a string expression, or a line number reference. I prefer the latter, as it allows for more flexibility, but since these different methods are explained in the manual, I will limit this to a few simple examples that are not shown in the manual.

```
100 TCOST=19.55
110 IMAGE ##.##
120 OPEN #1:"PIO"
130 PRINT #1,USING 110:TCOST
```

Running this sample program will effectively show how the PRINT USING statement will work with an open file. Of course, there are many other variations of IMAGE that can be used, so experiment with them and watch how it performs when line 130 dumps it to the printer. Shown below are a few more examples for use with an open file.

```
110 IMAGE "##.##     ##.##"
130 PRINT #1,USING 110:COST1
,COST2
```

This IMAGE statement will allow you to print two (or more) variables at a pre-determined spot on the same line. The length of the string expression in the IMAGE statement can be as long as you wish, up to the limit of an Extended BASIC line.

```
110 IMAGE "##########     ##
130 PRINT #1,USING 110:"TOTA
L COST",TCOST
```

This version shows how you can format the printed line for string data as well as numerical data. A string variable could be used in place of the string constant, as below.

```
105 A$="TOTAL COST"
110 IMAGE "##########     ##
130 PRINT #1,USING 110:A$,TC
OST
```

It is also possible to place the IMAGE statement inside the PRINT USING statement, as shown below. First, delete line 110.

```
130 PRINT #1,USING "##.##":T
COST
```

or

```
130 PRINT #1,USING "########
##    ##.##":A$,TCOST
```

A few other points to remember include the fact that IMAGE and PRINT USING can be used to round off calculated variables. A single string expression such as " ######.##" will round off and decimal align numbers as small as 0.01 up to 999999.99, and print the number at any designated location. This function could save many hours of algorithm development for accomplishing the same thing. So, in the long run, the PRINT USING statement is one that any programmer should be very familiar with, and use as much as possible.

[Ed Note: We are all so used to following PRINT #1 with a colon (:), that it is easy to forget that a comma must separate PRINT #1 and USING. Note carefully the placement of the comma and the colon in the PRINT statements above. The Format shown in the Extended Basic Manual does not show this comma; only one separating a File number from an optional RECord number. You may want to place a copy of this article next to Page 150 in your Extended Basic Manual.]

A FORTH IDEA by Val Mellberg

Fun With Fractals, Part III

When I finished off last month I thought I would be able to jump right into doing some actual graphics next. That would be nice, but just a little premature. First we need a MAIN MENU, and a way of saving and retrieving pictures. The Source Code on the next page will take care of all that.

In case you haven't noticed, Bit Map Graphics takes up quite a bit of the available VDP Ram. This means that all of the other tasks which must share this space are allocated must smaller pieces of memory in which to operate. The biggest losers in this scheme have to do with File I/O, the Peripheral Access Block (PAB) and the file buffers. In the other modes you have more than 11K to play with. In bit map mode things are so tight that I wound up doing something you may think a little odd. Every PAB I use is set up at the same place in the PAB Table. It might be convenient to have more than one file open at a time but it really isn't necessary.

The method I used is actually borrowed from the way SWCH works (Screen 72 on your master disk), which calls SET-PAB every time it opens the file to the printer. In fact I used the exact same address in the PAB Table, so don't forget that sending anything to the printer requires opening a file to it and you better not do that if any other file is open at the same time. As long as you use them one at a time it doesn't matter how many different kinds of files you set up and use.

The most important file is the one where your pictures are stored. This one is named "DSK2.GRAF#00_P". For pictures numbered between 1 and 99, the program will change the label accordingly. The extension, "_P", is important because this makes these pics portable to TI Artist. Since I haven't gotten into doing anything with color here it is only the Image Table which gets saved/loaded.

As you will see later, for some of these pictures it is important to be able to store information about them and that goes into the LABEL file. I keep track of how many pictures I've stored, and which is the next available number, by storing the information in the file "PIC_#". If you only have one drive, just edit all the file names to use DSK1.

The FORTH Word WT_NAM is used to write any changes that may be needed into a current PAB's filename address. The Word RD_NAM is commented out but was included since you may have a use for it elsewhere.

For most of the Words in this month's listing it should be quite easy to look at each component and trace back to their functions. The one odd one in the bunch comes from a trick I learned last year. The command LABL is used to perform a very simple task, just print a lable at the bottom of the graphic printout. The problem is that different kinds of pictures need different labels. Instead of having to create different copies of the options (OPS) function which is what calls LABL, it is much easier to be able to make LABL point at whatever version you may need at a given time. The label shown is called Old Label (OLlbl), and is put into V1 by the Word PUTOL. Any other label type can be created and its execution address stored in V1 in the same manner. Then when ~~when~~ the Word LABL does V1 EXECUTE, the proper label will be printed.

The code for Populations and the Binary Tree should all fit in next month. I promise! After that, I may leave you on your own with this project and go on to something else. The fact that I now have a functioning P-Code card and a renewed determination to master Assembly means that I may have to make some major changes, like possibly rotating "A Forth Idea" with something else or just changing the column to cover a group of languages. (That was part of the original idea.) Whichever I do, I will let you know. That's all for now, MTFBWY. V.M.

```
( FILE I/O ) : IO1 ; ( ALL PABS AT SAME ADDRESS ! )
: PAB@ PAB-ADDR @ ; Ø VAR F_CNT Ø VAR L/BUF 58 ALLOT PABS @ 10 +
F_CNT 7168 FILE P/# PABS @ 10 + Ø 8192 FILE PICS PABS @ 10 + L/BUF 7168
FILE LABEL
: SET/PIC PICS SET-PAB FXD DSPLY Ø REC-LEN F-D" DSK2.GRAF#ØØ_P " 14
PAB@ 9 + VSBW 6144 PAD ! PAD PAB@ 6 + 2 VMBW ;
: OP/# P/# SET-PAB RLTV INTRNL UPDATE 2 REC-LEN F-D" DSK2.PIC_# " 10
PAB@ 9 + VSBW OPN ;
: OP/LBL LABEL SET-PAB RLTV INTRNL UPDT 60 REC-LEN F-D" DSK2.LABEL "
10 PAB@ 9 + VSBW OPN ;
Ø VAR F_NAM 14 ALLOT F_NAM 16 ERASE Ø VAR G# Ø VAR GRAF#
: WT_NAM F_NAM PAB@ 10 + 15 VMBW ;
( : RD_NAM PAB@ 10 + F_NAM 15 VMBR ; )
: RD/# P/# Ø RSTR RD DROP ;
: WT/# P/# Ø RSTR 2 WRT ;
: GET/# OP/# RD/# CLSE ;
: PUT/# OP/# WT/# CLSE ;
: GET_G# GET/# F_CNT @ 2 5 AT ." Top File #" 1- . 2 7 AT ." Enter
Graph # (ØØ-99) " F_IN FDUP F->S G# ! >FAC STR 48 PAD 1+ C! PAD PAD C@ 1-
2 MIN + GRAF# 2 CMOVE ;
: >L/BUF Q#1 L/BUF 8 CMOVE Q# L/BUF 8 + 8 CMOVE Q#+ L/BUF 16 + 8
CMOVE ITS L/BUF 24 + 2 CMOVE MAG L/BUF 26 + 8 CMOVE Y_LIM L/BUF 34 + 8
CMOVE PRMR L/BUF 42 + 2 CMOVE ;
: L/BUF> L/BUF Q#1 8 CMOVE L/BUF 8 + Q# 8 CMOVE L/BUF 16 + Q#+ 8
CMOVE L/BUF 24 + ITS 2 CMOVE L/BUF 26 + MAG 8 CMOVE L/BUF 34 + Y_LIM 8
CMOVE L/BUF 42 + PRMR 2 CMOVE ;
: GET/LBL OP/LBL G# @ RSTR RD DROP L/BUF> CLSE ;
: PUT/LBL OP/LBL G# @ RSTR >L/BUF 60 WRT CLSE ;
: GET_FIL_NM GET_G# F_NAM !" DSK2.GRAF# _P" GRAF# F_NAM 10 + 2 CMOVE
; : >>> 25 Ø DO 23 I 1130 + VSBW LOOP ; ( FILE I/O )
: IO3 ; : E-B EMPTY-BUFFERS ; ( LOAD/VIEW/PRINT MAKE/SAVE/PRINT)
: OL1bl SWCH ." Start = " Q#1 F@ F. ." End = " @Q F. ." Inc. = "
Q#+ F@ F. CR ." Iterations (per X) = " ITS @ . ." Magnification = " MAG
F@ F. ." Y Limit = " Y_LIM F@ F. CR ." Primer Loops = " PRMR @ . CR CR
UNSWCH ;
: PUTOL ' OL1bl CFA ' V1 ! ;
: OLD_IMG PAGE GET_FIL_NM GRAPHICS2 SET/PIC WT_NAM 5 DOI/O >>>
GET/LBL PUTOL ; ( * * GET/LBL >>>> ) : SAV_PIC GET/# F_CNT @ DUP G# !
S->F >FAC STR 48 PAD 1+ C! F_NAM !" DSK2.GRAF# _P" PAD PAD C@ 1- + F_NAM
10 + 2 CMOVE 1 F_CNT +! PUT/# SET/PIC WT_NAM 6 DOI/O PUT/LBL ;
: LABL V1 EXECUTE ; -->
( MAIN MENU ) : OPS 1 Ø DO BEEP KEY CASE 81 OF LEAVE ENDOF 80 OF 65
LOAD ENDOF 83 OF SAV_PIC ENDOF 76 OF LABL ENDOF ENDCASE Ø +LOOP ;
: RUN 1 Ø DO T_MODE 2 1 AT ." FRACTAL MENU" 2 4 AT ." 1. Old Image"
2 6 AT ." 2. Populations" 2 8 AT ." 3. Do Tree" 2 10 AT ." Ø. Quit" 2
12 AT ." Enter Choice " KEY CASE 48 OF LEAVE ENDOF 49 OF OLD_IMG OPS
ENDOF 50 OF 70 LOAD ENDOF 51 OF 60 LOAD OPS ENDOF ENDCASE Ø +LOOP ;
```

~~~~~~~~~~~~~~~~~~~

W-AGE/99 * NEW-AGE/
99 * NEW-AGE/99 * N
EW-AGE/99 * NEW-AGE
/99 * NEW-AGE/99 *

---

* by JACK SUGHRUE, Box 459, East Douglas, MA 01516 *

#14

GENTLEMAN GENIUS

Of the two tags, Gentleman and Genius, I think the former gets my approbation concerning the best way to describe John Willforth. My wife, Elaine, agrees. For John is first a real gentleman; and that is what you think of before realizing he's also a genius. Gentlemen, I think, are rarities today, even among TIers; though I've discovered more in the 99er ranks than in other walks of life. People like Charlie Good, Jim Cox, Jim Peterson, Barry Traver.

Geniuses, though, are a dime a dozen in the computer world, and most of them are far from civilized.

An example, small but significant: Lots of TIers have been to my home, all of them treated to Elaine's gracious welcome, her extended hospitality in the matters of food and lodgings, so they get to know her and discover, too, that we two rattle alone around our hut, now that our four tykes have leapt into the grownup world, returning us to "couplehood" these past two years. So any female voice answering our phone will be Elaine. But John is the ONLY "adult" TI person who will acknowledge Elaine's existence on the phone. He always says, "Hi, Elaine, this is John Willforth," when she answers, just as if she's not a non-person. Sometimes they converse so long I have to pry the phone from her fingers so I can get to talk to John.

With others who've been here, however, it's usually "Jack there?" when she answers, without even mentioning who they are.

I don't know. Maybe I'm old fashioned, but I still believe a lot in courtesy and friendliness and the acknowledgment of the existence of someone I've met.

Anyway, John's old fashioned in this way, too, and I like it: 19th Century values in a 21st Century mind. It's fun being in tune to someone as family oriented as he is. He talks about his wife (Fay) and his three daughters with such joy that you know love and sensitivity are a VERY LARGE part of his nature.

My wife and I talk about John so much that my son Matthew and his wife (Carolyn) wanted very much to meet him. The last time he came over for dinner, we had the "kids" over, too, and all of us enjoyed his pleasant, witty company all evening.

John's a talker. That's a compliment. And he can converse about almost anything but literature (as he claims he doesn't have time to read novels, thus leading to the time-worn argument in THIS house that all the major social changes in the world have been brought about by fiction ... and so on). It's fun arguing with John because the conversation is stimulating and he's still your friend in the end.

John's logical. He even tries to use logic with his teenagers (which probably makes him illogical, when you think about it).

He's hardworking (to a workaholic degree, I think) at some pretty heavy duty electronic wizardry. John even has a calculator on his watch, which he uses.
~~~~~~~~~~~~~~~~~~~

He writes well. His articles on printers, as well as the long-term articles on hardware (and software) are lucid, practical, and scary: SCARY in the sense that he takes apart consoles and P-boxes and anything else mechanical, electrical, and electronic that he can get his hands on and performs vivisectionist surgery on their innards. He seems to be able to radically modify anything, from computer chips to his backhoe and assumes everybody else should be able to do so.

Whew! Not me. My hands shake when I have to dump my pencil sharpener or fill my stapler.

But John's made me a believer. One evening he came up to my computer room, still chatting about his family, and, while carrying on the conversation, took apart my working P-box. Completely! Screws, nuts, bolts, fans, stuff, whachamacallits, and thingamajigs. Then he reversed my fan, explaining that it would keep my box cool (maybe even cooler) while it would cut down the noise to one-third. It did. We turned on other P-boxes in the room and compared them to the fix.

He also told me where and how to order floppy drives and how to install them (5.25 and 3.5 operate with no cable modification on the TI). I learned that I could buy any IBM compatible half-height disk drives and put them in my TI. [ERM Electronic Liquidators (1 800 776 5865)] for fully warranted reconditioned drives. I called, bought two Panasonic DSDD ($29 each!!!!), installed them myself, just like a computer grownup. Though they also sell cables and disks (for as low as .15 each DSDD), I ended up getting a Power Y cable for internal power connector ($.99) and an AT-HDDR cable set for double connector to controller ($2.89) and a whole lot of other things from another company he recommended: National Computer Accessories (916-441-1568). So, thanks to John, I was able to convert my setup on my school system from one SSSD to two DSSD at a cost of around $60! And does that make a LARGE difference in my ability to do TI things in my classroom. As a matter of fact I'm writing this at school on my quiet P-box, DSSD system and ♥ it! Everything works great. (Remember, we're talking about John teaching me, the man who has to use a manual to open a jar of peanut butter. You readers are chuckling over this "big" hardware deal, but John opened up new worlds to me. I plan to confidently upgrade another system soon and maybe even do a user group demo.

Which brings me back to John's generous spirit. While at a training session in Connecticut some months ago, John willingly came to our M.U.N.C.H. in Worcester, Massachusetts, one evening and shared some great insights and answered all kinds of questions, including some about things he had written as newsletter editor of the West Penn user group, which he founded many years ago to reach out to users outside the Pittsburgh area.

He was also the hit of the New England Fayuh that same week. Everyone there was thrilled to meet the man they all knew through his writings and references to his work by others. He ended up being the biggest TI star at the whole event. People at the fair were in awe of him and still talk about his visit, yet I've met very few humbler men.

Now, back at my desk at home, I'm using a console John modified a while ago and recently gave to me. It has a plexiglass cutaway of the interior housing of a Zenoboard containing a clock, speech, 32K, E/A, XB, ADVENTURE, TIW, DM, and a system Pause button. All switchable. I feel as though I died and went to TI Heaven.

The man's a genius, no doubt, but more important, he sure is a warm and sensitive friend. To me, it's worth owning a TI just to have met John Willforth.

[If you use MBW-AGE/99 please put me on your exchange list.]

March 11, 1991

Downloaded from Compuserve
I think we missed a
good one! How's the leg?
Harry

#: 12926 S2/99/4A General
10-Mar-91 0/:48:50
Sb: "T.I.C.O.F.F." '91
Fm: Barry Traver 70436,373
To: ALL

Yesterday (Saturday, March 9th) I attended the "Family Computer Exposition and Ham Radio Festival" (a.k.a. TICOFF in earlier years) at Roselle Park High School, Roselle Park, New Jersey. As the name change indicates, the event is no longer restricted to TI'ers, but it was still, in my opinion, an event well worth attending. As usual, I enjoyed meeting old friends face-to-face and making new ones, which is to me often the best part of any gathering of TI'ers.

TI vendors personally represented included Asgard Software (represented by Bill Reiss, author of Tournament Solitaire and brother of Jim Reiss, author of other Asgard programs), Colonial Software (a source of fairware and public domain software for the TI-99/4A and MYARC 9640), and Rave 99 (John McDevitt). Although I did not get to talk with him myself, Joe Ross (author of cSHELL 99) was also present. Some TI vendors were not able to attend in person, but were represented by their products.

There were lots of bargains around (can you believe an empty used PEB for $15?). Joe Ross was selling his cSHELL 99 for only $20 (usual price $30). You could purchase the latest copy of MICROpendium or Vulcan's COMPUTER MONTHLY for only $1 each (not to mention other magazines like COMPUTER SHOPPER, PC Sources, PC Magazine, or PC Computing), or get a copy free if you wanted to sign up for a subscription. Those people who own a "PC" (i.e., IBM clone) in addition to their TI-99/4A or MYARC 9640 (and there are quite a few of us in that category) were able to take advantage of at least three vendors of IBM shareware and public domain software vendors, offering their wares at $1 to $1.50 a disk.

Out of town TI "celebrities" present that I especially enjoyed talking with included Mike Wright (who came all the way from New Hampshire) and Harry Wilhelm (author of The Missing Link, EZ-Keys Plus, etc.). I also got to meet (for the first time, I believe) Ed Machonis (founder of the QB-99ers and author of many label printing programs, e.g., MAC-LABELS, which was recently printed in MICROpendium). Ed, by the way, was one of the speakers at the gathering. He was introduced to me by Andy Becker (author of the PEEKG routine included in XXB/1-5).

Although "Louis H. Phillips" was listed on the printed program as one of the speakers (the announced topic was "State of the Art - Demonstration and Discussion of Myarc's Latest Products"), he was unable to attend. (I had been looking forward to chatting with him, since he lives only 20 minutes or so away from Rochelle Park, but I did know ahead of time that he would not be able to make it, since Dr. Eric Bray had forewarned me that Lou had a conflicting commitment this weekend that would keep him from coming.) You'll be glad to hear, however, that MYARC is presently working full-speed on getting MDOS 1.15 and .98H _and_ the p-system out to 9640 owners as soon as possible!

Here are a couple of perhaps not-easy-to-find addresses that you might find useful, Colonial Software (the "Sponsoring Agent of T.I.C.O.F.F.") and Joseph

Ross (author of cSHELL 99, which looks like a great program!):

Colonial Software
15 Wyda Court
Colonia, NJ 07067-1918
(phone: 908-815-1279)

Joseph Ross
119 Knollwood Terrace
Clifton, NJ 07012

Again, I very much enjoyed attending this year's gathering, and am looking forward already to attending this New Jersey computer fest when it meets again in 1992. It was a fun time!

Yesterday was an interesting day for me, so far as 1991 TI fairs are concerned.

(1) I had a very enjoyable time at the Family Computer Exposition and Ham Radio Festival (formerly TICOFF) in Roselle Park, NJ (except for learning that Art Byers - former TICOFF organizer and TINET sysop - has swapped his TI for a "PC" - in our conversation, Art likened the TI to a "model T," a view with which I heartily disagreed, since I also now have a "PC" but see no reason to give up my MYARC 9640 or any of my TI systems as a result!).

(2) While there, Mike Wright (who ... though he lives in New Hampshire .. has been actively involved with the Boston Computer Society for many years) asked me if I would be one of the speakers for the Northeast TI-99/4A Home Computer Fair (or "Fayuh") on April 6. (Contact Justin Dowling, The TI User Group, Boston Computer Society, One Center Plaza, Boston, MA 02108 for more information on the fair.)

(3) When I got home, my wife told me that Charlie Good had called, wanting to know a title for my talk at the upcoming Multi User Group Conference on May 18. (Read the file LIMA91.INF in Data LIBrary 1 for more information on MUG.) I phoned Charlie back, and we had a very enjoyable conversation on many topics related to the TI world.

If you missed northern New Jersey, you won't want to miss Boston, Massachusetts or Lima, Ohio! Plan now to attend. (I'll upload more info on Boston when I get it.)

For Horizon Ram Disk users

(reported by Harry W.Guenther)

Some owners of HRDs may have missed the excellent tip that appeared in the October '90 MICROmendium User Notes. It is truly useful, and bears repeating.

Normally, to get into Extended Basic from the MENU screen you press the "C" or Cartridge key choice. If you use this frequently, the delayed response is annoying. I timed it at 22 seconds on my unit.

The tip suggests that you press instead, in quick sequence, the X, 7, and <ENTER> keys. The almost immediate conversion to XB is neat!

The original author of this tip (unknown other than the report was published in the Adelaide ,Australia newsletter), explains that pressing X selects the choice to run an XB program, and the default filename DSK1.UTIL1 appears. The cursor is over the 1, and pressing key 7 changes the disk drive number to an unavailable drive. Not finding Drive 7, the Menu program drops out with the customary READY prompt in XB environment appearing. The response is immediate.

DALLAS TI HOME COMPUTER
MATTIE BUSH
P.O. BOX 29863
DALLAS, TX
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FIRST CLASS MAIL

LONG ISLAND SOUND
THE NEWSLETTER OF THE
LONG ISLAND 99ER'S U. G.

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11801-2424

**** 1991 COMPUTER FAIRS ****

APRIL 20/21,1991 (SAT/SUN) TRENTON COMPUTER FESTIVAL- MERCER COUNT COMMUNITY COLEGE- 9AM- 6PM SAT/10-4PM SUN- COST $7.00 2 DAYS- $5.00 SUN. ONLY- RT #95 SQUTH TO RT 295 SOUTH TO RT #1 EXIT US 1 NORTH TO QUAKERBRIDGE ROAD(#533 SOUTH) TO RT 535 OLD TRENTON ROAD ROAD TO THE COLLEGE-1200 O T ROAD. 900 FLEA TABLES.

MAY 5, 1991 (SUN) LONG ISLAND AREA- HOFSTRA UNIV- HEMPSTEAD TURNPIKE- HEMP STEAD, NY. 300 TABLES. 10 AM TO 3 PM. ADM.$8.00. KGP.

MAY 18, 1991 (SAT) WAYNE, NJ. - WM PATERSON COLLEGE. 10 AM TO 4 PM. ADM. $8.00. 700 SPOTS)(OUTDOOR FLEAMARKET. KGP.

MAY 17-18, 1991 (FRI/SAT) LIMA T.I. MULTI USER GROUP CONFERENCE. MORE INFO: CALL DAVID A. SZIPPL (419) 228-7109.

**** DISCLAIMER ****

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* Ken Gordon Productions (KGP) $1.00 discounts with mail cards, flyers . Copies are acceptable. Call(800)631-0062 OR (201)297-2526 for info.

* Tri-State Computer Fairs (TSCF) gives $1.00 discount with mailed cards. Call Robert Barlow (201)533-1991 for info.